

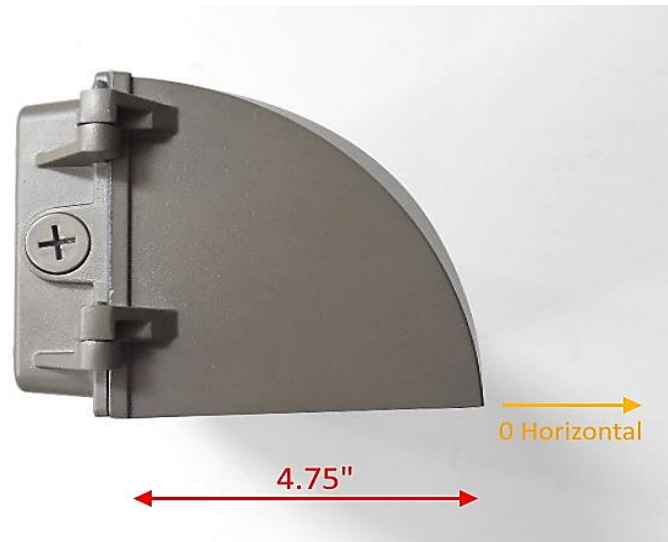


## Report of Test

LLIA001630-002

Roadway/Area Light Distribution Photometry Test Report

Catalog Number: WPFC-75W-PCTS-BZ-PC - 60W and 5000K Setting  
Surface mounted wall pack, cast aluminum housing, clear plastic enclosure with lightly textured general finish, linear lens above each row of LEDs with vertical linear micro prisms.  
192 LEDs, 96 cool white and 96 warm white LEDs on white circuit board  
One BQ BQE78-0720-100-PVF-PS LED driver



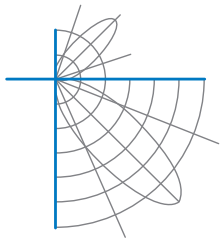
Prepared For:  
Topaz Lighting Corp  
925 Waverly Avenue  
Holtsville, NY 11742, USA

| Performance Summary |           |                |               |
|---------------------|-----------|----------------|---------------|
| Input Voltage       | 120.0 Vac | Luminous Flux  | 8207.6 Lumens |
| Input Current       | 0.5007 A  | Total Efficacy | 138.5 Lm/W    |
| Input Power         | 59.25 W   |                |               |
| Frequency           | 60.00 Hz  |                |               |
| Power Factor        | 0.986     | Roadway Type   | Area Light    |
| Current THD         | 12.3 %    | IES BUG Rating | B2 - U0 - G1  |

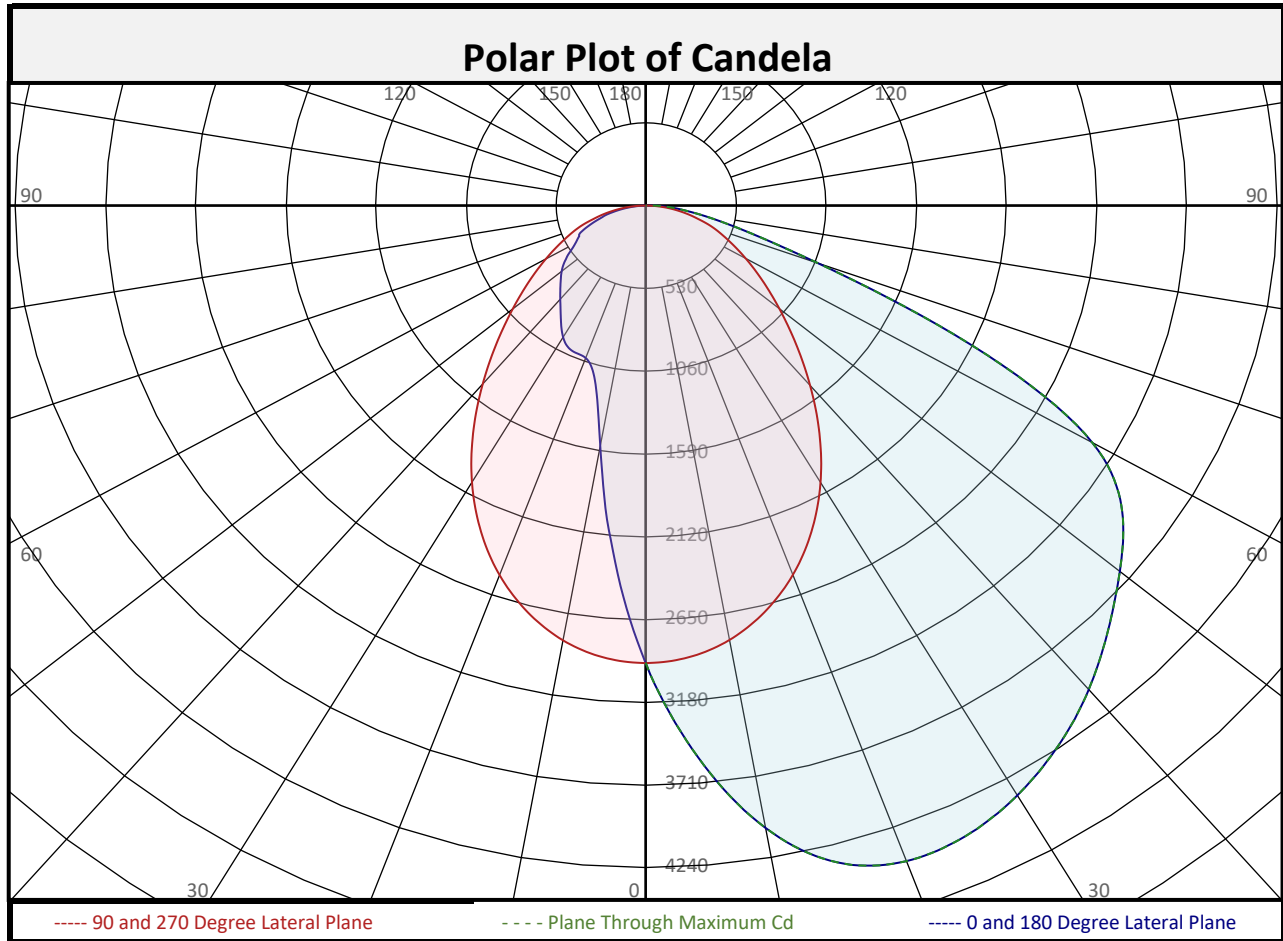
This test report was issued by LightLab International Allentown, LLC without alterations or erasures.

Test date: 01/12/2022  
Report date: 01/14/2022

Signed: \_\_\_\_\_

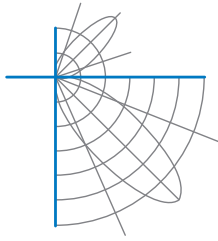


## Report of Test LLIA001630-002

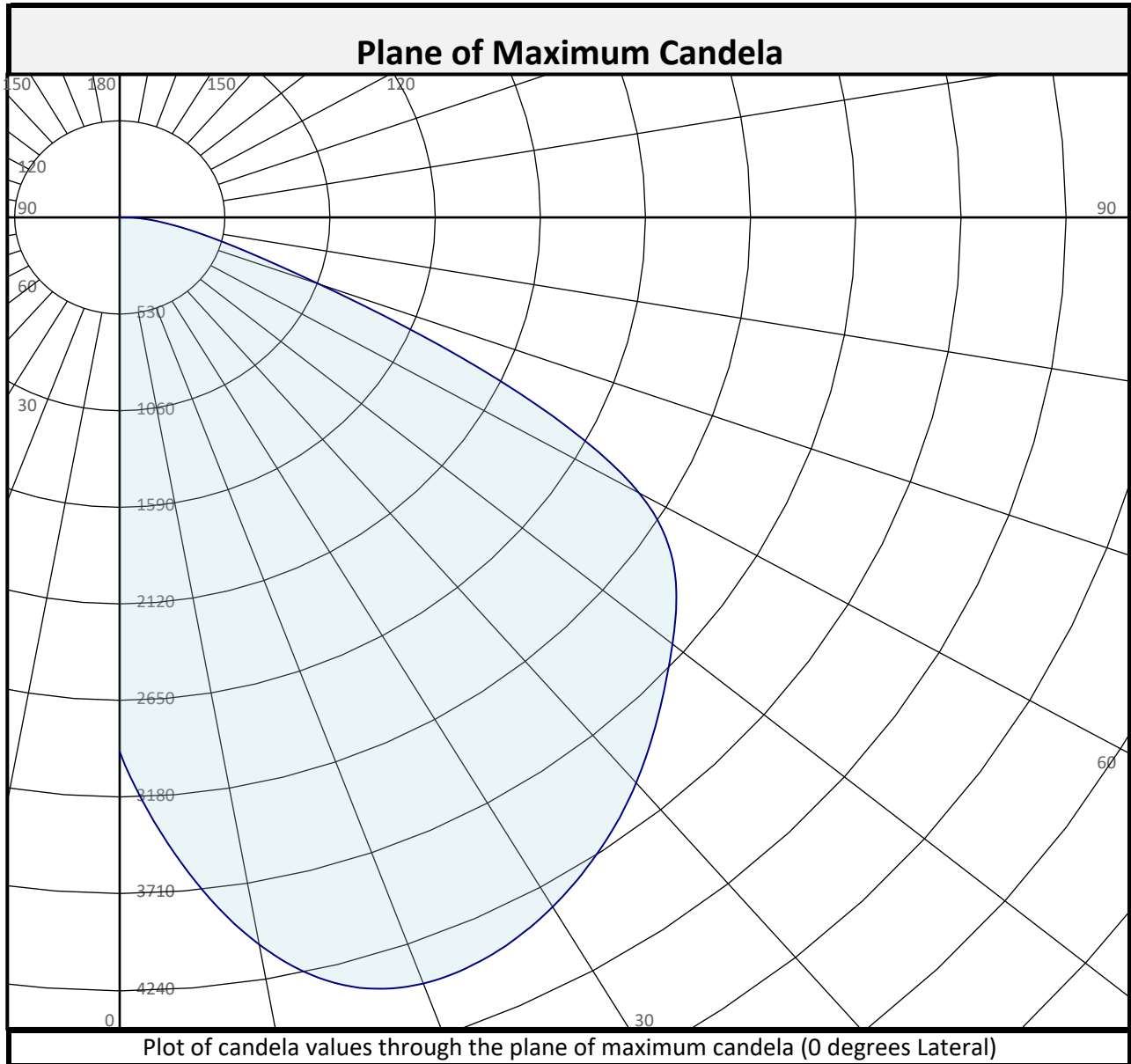


### Zonal Flux Summary

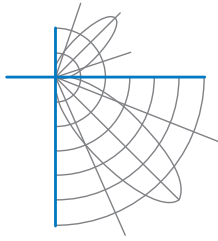
| Zone (Deg Vert) | Flux (Lumens) | Percent of Total | Zone (Deg Vert) | Flux (Lumens) | Percent of Total | Zone (Deg Vert) | Flux (Lumens) | Percent of Total |
|-----------------|---------------|------------------|-----------------|---------------|------------------|-----------------|---------------|------------------|
| 0-10            | 273.6         | 3.3%             | 90-100          | 0.0           | 0.0%             | 0-20            | 1040          | 12.7%            |
| 10-20           | 766.7         | 9.3%             | 100-110         | 0.0           | 0.0%             | 0-30            | 2209          | 26.9%            |
| 20-30           | 1169          | 14.2%            | 110-120         | 0.0           | 0.0%             | 0-40            | 3629          | 44.2%            |
| 30-40           | 1420          | 17.3%            | 120-130         | 0.0           | 0.0%             | 0-60            | 6495          | 79.1%            |
| 40-50           | 1482          | 18.1%            | 130-140         | 0.0           | 0.0%             | 0-80            | 8068          | 98.3%            |
| 50-60           | 1384          | 16.9%            | 140-150         | 0.0           | 0.0%             | 10-90           | 7934          | 96.7%            |
| 60-70           | 1059          | 12.9%            | 150-160         | 0.0           | 0.0%             | 20-50           | 4070          | 49.6%            |
| 70-80           | 514.4         | 6.3%             | 160-170         | 0.0           | 0.0%             | 40-90           | 4579          | 55.8%            |
| 80-90           | 139.1         | 1.7%             | 170-180         | 0.0           | 0.0%             | 60-90           | 1713          | 20.9%            |
| 0-90            | 8208          | 100.0%           | 90-180          | 0.0           | 0.0%             | 0-180           | 8208          | 100.0%           |



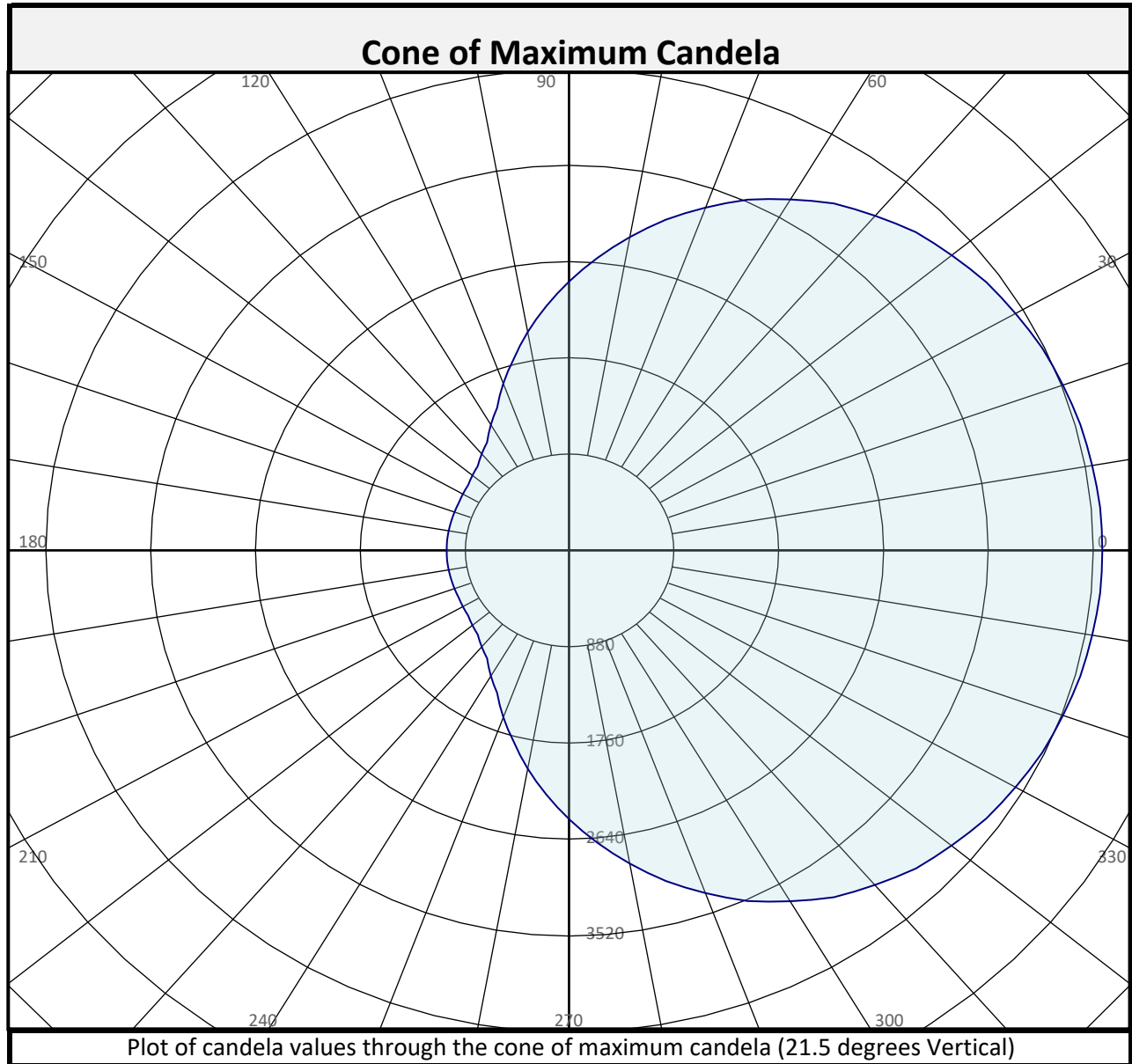
Report of Test  
LLIA001630-002



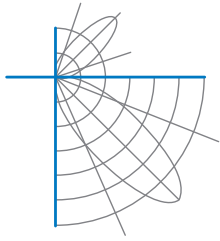
| Street and House Side Flux Summary |               |               |            |             |               |               |
|------------------------------------|---------------|---------------|------------|-------------|---------------|---------------|
|                                    | Downward      |               | Upward     |             | Total         |               |
|                                    | Lumens        | % of Total    | Lumens     | % of Total  | Lumens        | % of Total    |
| Street Side                        | 6318.5        | 77.0%         | 0.0        | 0.0%        | 6318.5        | 77.0%         |
| House Side                         | 1889.1        | 23.0%         | 0.0        | 0.0%        | 1889.1        | 23.0%         |
| <b>Total</b>                       | <b>8207.6</b> | <b>100.0%</b> | <b>0.0</b> | <b>0.0%</b> | <b>8207.6</b> | <b>100.0%</b> |



Report of Test  
LLIA001630-002

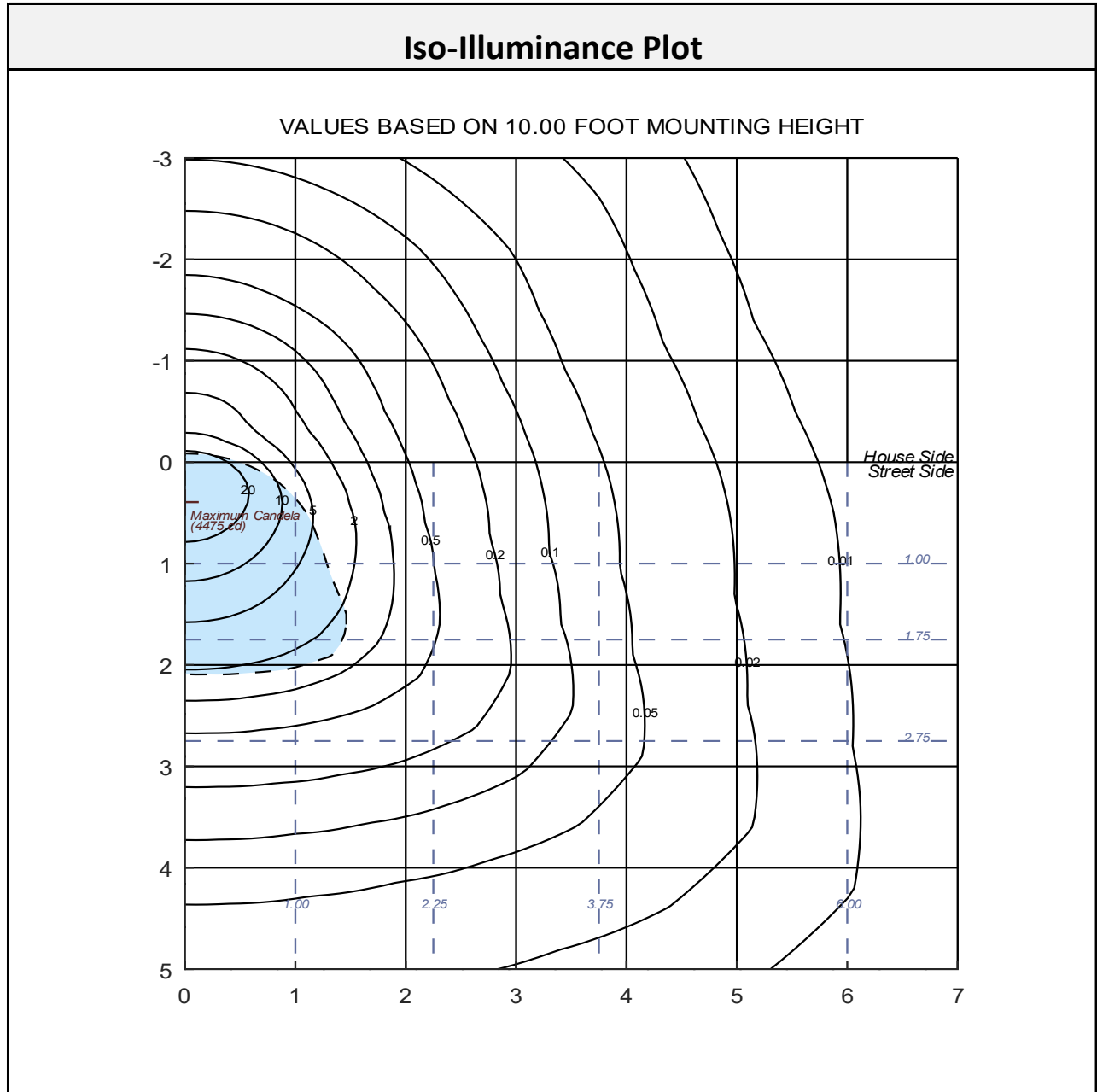


| Street and House Side Flux Summary |               |               |            |             |               |               |
|------------------------------------|---------------|---------------|------------|-------------|---------------|---------------|
|                                    | Downward      |               | Upward     |             | Total         |               |
|                                    | Lumens        | % of Total    | Lumens     | % of Total  | Lumens        | % of Total    |
| Street Side                        | 6318.5        | 77.0%         | 0.0        | 0.0%        | 6318.5        | 77.0%         |
| House Side                         | 1889.1        | 23.0%         | 0.0        | 0.0%        | 1889.1        | 23.0%         |
| <b>Total</b>                       | <b>8207.6</b> | <b>100.0%</b> | <b>0.0</b> | <b>0.0%</b> | <b>8207.6</b> | <b>100.0%</b> |

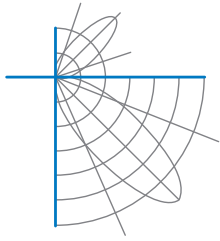


## Report of Test

LLIA001630-002

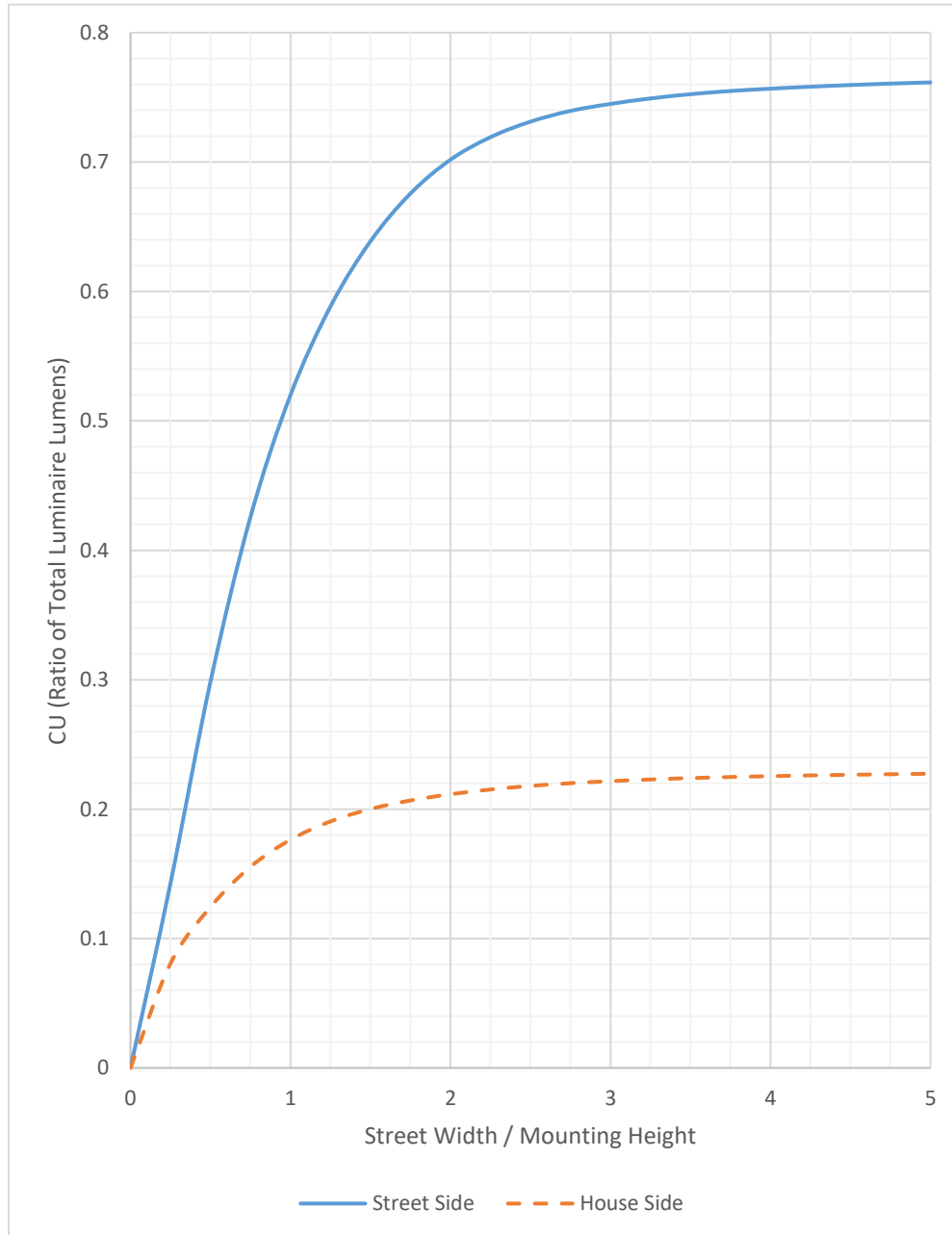


The isofootcandle values shown in the plot above are based on a mounting height of  $h = 10.0$  feet. Grid values show multiples of mounting height. The isoilluminance contour lines are expressed in units of footcandles. The values expressed are based on the direct light from a single unit without the contribution of room reflections.



## Report of Test LLIA001630-002

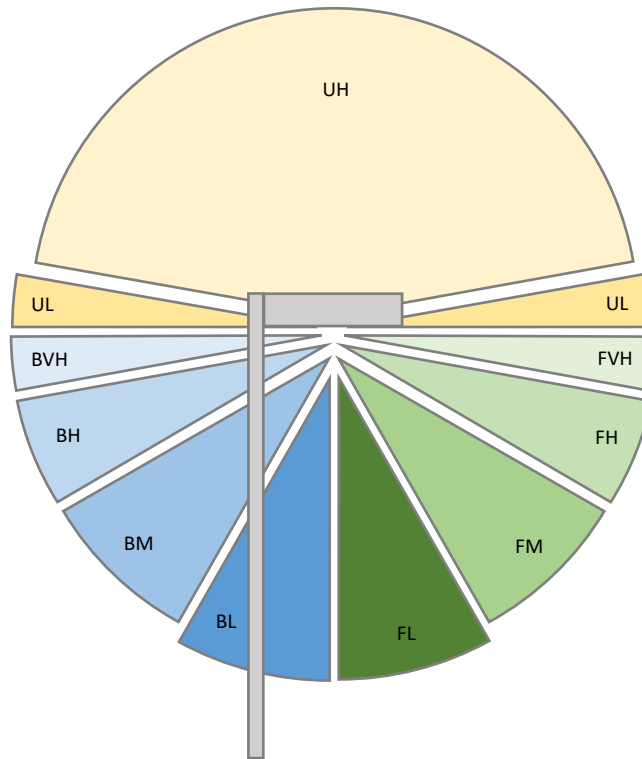
### Coefficients of Utilization Plot





Report of Test  
LLIA001630-002

LCS Tables and Bug Classification



**Back Light**

|                                |          |
|--------------------------------|----------|
| BL - Back Low (0°-30°)         | 623.5 Lm |
| BM - Back Mid (30°-60°)        | 883.2 Lm |
| BH - Back High (60°-80°)       | 342.8 Lm |
| BVH - Back Very High (80°-90°) | 39.6 Lm  |

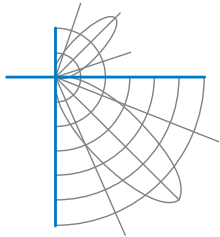
**Forward Light**

|                                   |           |
|-----------------------------------|-----------|
| FL - Forward Low (0°-30°)         | 1585.5 Lm |
| FM - Forward Mid (30°-60°)        | 3402.7 Lm |
| FH - Forward High (60°-80°)       | 1230.8 Lm |
| FVH - Forward Very High (80°-90°) | 99.6 Lm   |

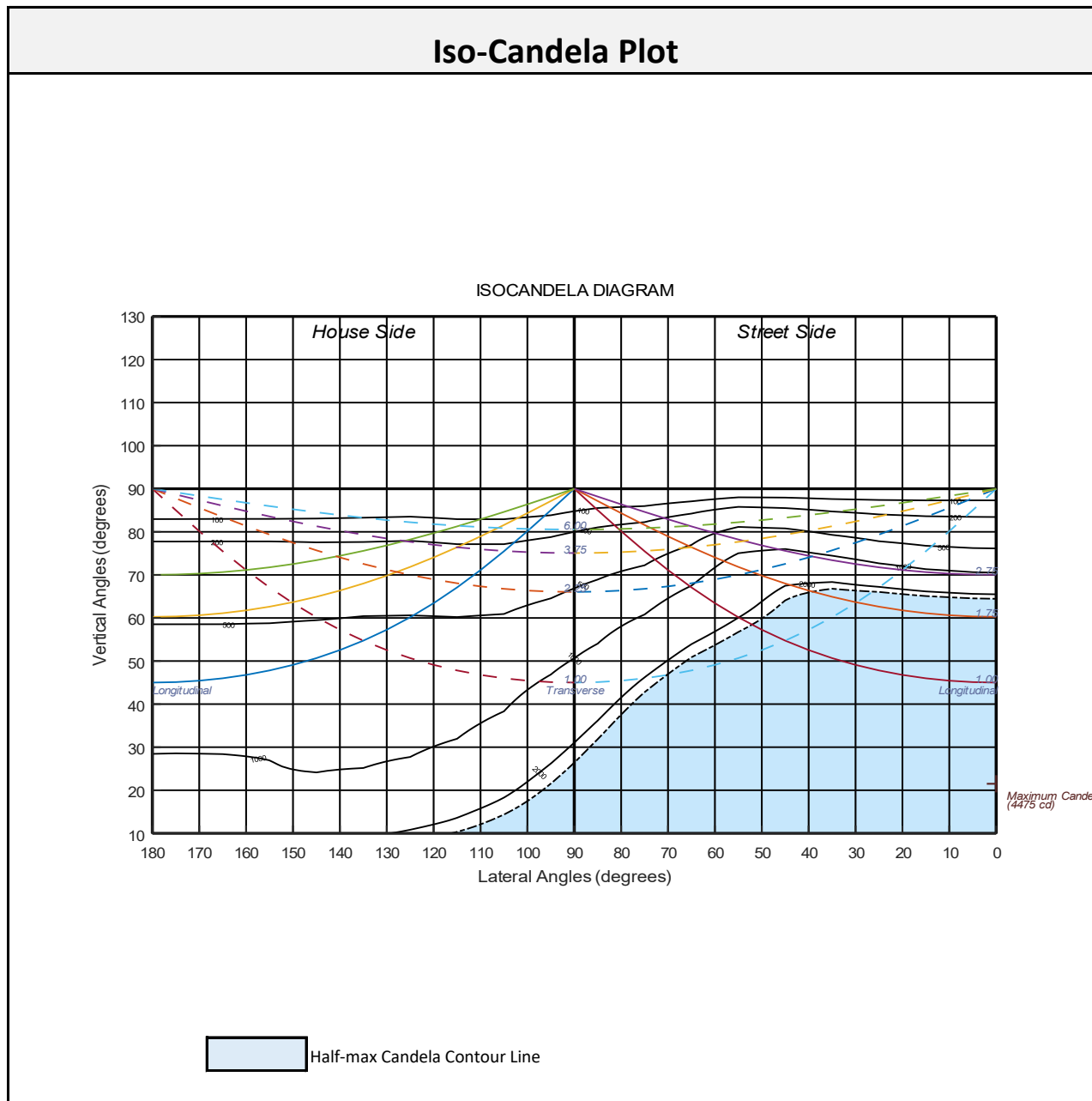
**Uplight**

|                              |        |
|------------------------------|--------|
| UL - Upward Low (90°-100°)   | 0.0 Lm |
| UH - Upward High (100°-180°) | 0.0 Lm |

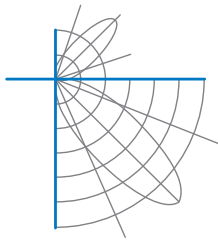
BUG Ratings: B2 - U0 - G1



Report of Test  
LLIA001630-002





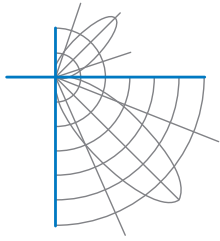


## Report of Test

### LLIA001630-002

Luminous Intensity (Candela) Table

|  | Lateral (C-Plane) Angles |      |      |      |      |      |      |      |      |      |      |      |
|--|--------------------------|------|------|------|------|------|------|------|------|------|------|------|
|  | 0                        | 5    | 15   | 25   | 35   | 45   | 55   | 65   | 75   | 85   | 90   |      |
| Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown. | 0                        | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 |
|  | 2.5                      | 3254 | 3255 | 3240 | 3222 | 3189 | 3154 | 3109 | 3059 | 3005 | 2951 | 2921 |
|  | 5                        | 3549 | 3549 | 3525 | 3489 | 3430 | 3359 | 3273 | 3176 | 3069 | 2959 | 2902 |
|  | 7.5                      | 3818 | 3817 | 3784 | 3733 | 3650 | 3547 | 3421 | 3278 | 3120 | 2956 | 2870 |
|  | 10                       | 4046 | 4045 | 4007 | 3944 | 3843 | 3712 | 3550 | 3363 | 3156 | 2938 | 2824 |
|  | 12.5                     | 4227 | 4226 | 4186 | 4117 | 4004 | 3853 | 3661 | 3433 | 3176 | 2906 | 2766 |
|  | 15                       | 4355 | 4354 | 4315 | 4246 | 4127 | 3966 | 3749 | 3485 | 3181 | 2862 | 2695 |
|  | 17.5                     | 4433 | 4433 | 4396 | 4329 | 4214 | 4048 | 3817 | 3521 | 3173 | 2804 | 2613 |
|  | 20                       | 4470 | 4468 | 4435 | 4371 | 4262 | 4098 | 3858 | 3537 | 3151 | 2732 | 2521 |
|  | 22.5                     | 4474 | 4472 | 4441 | 4381 | 4276 | 4117 | 3875 | 3536 | 3113 | 2648 | 2418 |
|  | 25                       | 4455 | 4453 | 4421 | 4363 | 4262 | 4107 | 3867 | 3515 | 3061 | 2553 | 2305 |
|  | 27.5                     | 4417 | 4416 | 4383 | 4323 | 4223 | 4071 | 3836 | 3476 | 2991 | 2448 | 2183 |
|  | 30                       | 4366 | 4366 | 4331 | 4268 | 4165 | 4014 | 3782 | 3417 | 2906 | 2332 | 2055 |
|  | 32.5                     | 4302 | 4303 | 4266 | 4199 | 4092 | 3938 | 3705 | 3338 | 2806 | 2203 | 1920 |
|  | 35                       | 4227 | 4227 | 4190 | 4119 | 4005 | 3843 | 3610 | 3239 | 2691 | 2066 | 1781 |
|  | 37.5                     | 4145 | 4142 | 4104 | 4029 | 3908 | 3736 | 3497 | 3123 | 2559 | 1923 | 1642 |
|  | 40                       | 4051 | 4047 | 4009 | 3930 | 3799 | 3617 | 3366 | 2987 | 2413 | 1774 | 1504 |
|  | 42.5                     | 3950 | 3946 | 3906 | 3824 | 3683 | 3486 | 3224 | 2835 | 2255 | 1623 | 1373 |
|  | 45                       | 3846 | 3842 | 3800 | 3712 | 3561 | 3348 | 3069 | 2670 | 2086 | 1475 | 1248 |
|  | 47.5                     | 3741 | 3738 | 3694 | 3600 | 3434 | 3201 | 2903 | 2492 | 1908 | 1331 | 1132 |
| 50   | 3640                     | 3637 | 3590 | 3487 | 3304 | 3050 | 2729 | 2305 | 1725 | 1195 | 1026 |      |
| 52.5   | 3538                     | 3535 | 3489 | 3378 | 3177 | 2895 | 2549 | 2111 | 1544 | 1071 | 928  |      |
| 55   | 3421                     | 3420 | 3384 | 3273 | 3054 | 2741 | 2365 | 1916 | 1367 | 958  | 839  |      |
| 57.5   | 3266                     | 3267 | 3250 | 3161 | 2940 | 2592 | 2184 | 1721 | 1200 | 857  | 757  |      |
| 60   | 3029                     | 3038 | 3056 | 3016 | 2825 | 2451 | 2005 | 1529 | 1047 | 765  | 681  |      |
| 62.5   | 2638                     | 2656 | 2730 | 2789 | 2680 | 2322 | 1833 | 1342 | 907  | 680  | 610  |      |
| 65   | 2112                     | 2136 | 2256 | 2428 | 2462 | 2183 | 1673 | 1165 | 784  | 605  | 545  |      |
| 67.5   | 1538                     | 1561 | 1698 | 1942 | 2135 | 1999 | 1521 | 1000 | 676  | 537  | 486  |      |
| 70   | 1076                     | 1093 | 1203 | 1434 | 1716 | 1760 | 1362 | 850  | 579  | 473  | 430  |      |
| 72.5   | 772                      | 783  | 856  | 1025 | 1288 | 1458 | 1190 | 715  | 490  | 406  | 370  |      |
| 75   | 572                      | 578  | 622  | 730  | 928  | 1128 | 1002 | 590  | 406  | 339  | 308  |      |
| 77.5   | 426                      | 430  | 455  | 522  | 653  | 825  | 797  | 475  | 332  | 281  | 254  |      |
| 80   | 316                      | 318  | 331  | 369  | 448  | 570  | 590  | 368  | 261  | 223  | 200  |      |
| 82.5   | 226                      | 227  | 234  | 254  | 297  | 372  | 401  | 266  | 193  | 168  | 148  |      |
| 85   | 157                      | 158  | 160  | 169  | 189  | 224  | 243  | 171  | 125  | 112  | 95   |      |
| 87.5   | 96                       | 96   | 96   | 98   | 103  | 114  | 120  | 87   | 61   | 54   | 44   |      |
| 90   | 0                        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |



## Report of Test

LLIA001630-002

Luminous Intensity (Candela) Table

|  | Lateral (C-Plane) Angles |   |    |    |    |    |    |    |    |    |    |   |
|--|--------------------------|---|----|----|----|----|----|----|----|----|----|---|
|  | 0                        | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 | 90 |   |
| Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown. | 90                       | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 92.5                     | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 95                       | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 97.5                     | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 100                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 102.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 105                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 107.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 110                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 112.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 115                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 117.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 120                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 122.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 125                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 127.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 130                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 132.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 135                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 137.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 140                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 142.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 145                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 147.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 150                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 152.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 155                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 157.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 160                      | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
|  | 162.5                    | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0 |
| 165  | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
| 167.5  | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
| 170  | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
| 172.5  | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
| 175  | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
| 177.5  | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |
| 180  | 0                        | 0 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |   |



## Report of Test

LLIA001630-002

Luminous Intensity (Candela) Table

|      | Lateral (C-Plane) Angles |      |      |      |      |      |      |      |      |      |      |
|------|--------------------------|------|------|------|------|------|------|------|------|------|------|
|      | 90                       | 95   | 105  | 115  | 125  | 135  | 145  | 155  | 165  | 175  | 180  |
| 0    | 2929                     | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 | 2929 |
| 2.5  | 2921                     | 2889 | 2833 | 2779 | 2727 | 2682 | 2645 | 2616 | 2594 | 2587 | 2581 |
| 5    | 2902                     | 2842 | 2728 | 2617 | 2515 | 2424 | 2347 | 2287 | 2243 | 2227 | 2220 |
| 7.5  | 2870                     | 2781 | 2609 | 2446 | 2289 | 2155 | 2055 | 1975 | 1914 | 1885 | 1878 |
| 10   | 2824                     | 2710 | 2481 | 2263 | 2068 | 1906 | 1758 | 1654 | 1587 | 1557 | 1551 |
| 12.5 | 2766                     | 2625 | 2345 | 2077 | 1851 | 1642 | 1497 | 1400 | 1342 | 1316 | 1312 |
| 15   | 2695                     | 2531 | 2200 | 1905 | 1627 | 1427 | 1299 | 1223 | 1181 | 1164 | 1160 |
| 17.5 | 2613                     | 2425 | 2048 | 1716 | 1435 | 1260 | 1162 | 1111 | 1087 | 1078 | 1076 |
| 20   | 2521                     | 2312 | 1897 | 1535 | 1281 | 1142 | 1075 | 1048 | 1040 | 1040 | 1039 |
| 22.5 | 2418                     | 2191 | 1754 | 1379 | 1163 | 1060 | 1021 | 1017 | 1025 | 1031 | 1030 |
| 25   | 2305                     | 2064 | 1609 | 1248 | 1074 | 1003 | 992  | 1006 | 1021 | 1028 | 1027 |
| 27.5 | 2183                     | 1932 | 1461 | 1143 | 1005 | 964  | 976  | 997  | 1008 | 1012 | 1011 |
| 30   | 2055                     | 1795 | 1326 | 1057 | 951  | 938  | 962  | 977  | 980  | 978  | 976  |
| 32.5 | 1920                     | 1661 | 1209 | 985  | 907  | 916  | 939  | 943  | 936  | 930  | 928  |
| 35   | 1781                     | 1528 | 1110 | 923  | 871  | 892  | 905  | 898  | 885  | 878  | 876  |
| 37.5 | 1642                     | 1401 | 1026 | 868  | 840  | 862  | 863  | 849  | 836  | 830  | 828  |
| 40   | 1504                     | 1281 | 951  | 819  | 809  | 825  | 818  | 803  | 793  | 788  | 787  |
| 42.5 | 1373                     | 1171 | 883  | 775  | 776  | 785  | 774  | 763  | 754  | 749  | 748  |
| 45   | 1248                     | 1070 | 821  | 734  | 741  | 742  | 734  | 724  | 717  | 713  | 713  |
| 47.5 | 1132                     | 977  | 763  | 695  | 703  | 702  | 695  | 688  | 683  | 680  | 680  |
| 50   | 1026                     | 892  | 709  | 656  | 663  | 664  | 660  | 655  | 650  | 648  | 648  |
| 52.5 | 928                      | 812  | 657  | 618  | 623  | 627  | 625  | 618  | 614  | 611  | 611  |
| 55   | 839                      | 738  | 608  | 580  | 588  | 591  | 587  | 579  | 570  | 567  | 567  |
| 57.5 | 757                      | 670  | 562  | 542  | 551  | 553  | 544  | 529  | 520  | 518  | 518  |
| 60   | 681                      | 606  | 516  | 503  | 511  | 509  | 488  | 476  | 477  | 479  | 479  |
| 62.5 | 610                      | 546  | 472  | 463  | 466  | 451  | 439  | 438  | 447  | 451  | 451  |
| 65   | 545                      | 490  | 428  | 421  | 413  | 403  | 400  | 409  | 428  | 433  | 433  |
| 67.5 | 486                      | 438  | 383  | 372  | 365  | 361  | 374  | 386  | 391  | 392  | 392  |
| 70   | 430                      | 389  | 338  | 323  | 322  | 334  | 339  | 338  | 340  | 342  | 342  |
| 72.5 | 370                      | 335  | 290  | 277  | 293  | 296  | 291  | 289  | 290  | 292  | 291  |
| 75   | 308                      | 277  | 238  | 235  | 256  | 248  | 244  | 242  | 248  | 252  | 253  |
| 77.5 | 254                      | 226  | 193  | 194  | 208  | 202  | 201  | 205  | 206  | 205  | 205  |
| 80   | 200                      | 176  | 150  | 149  | 162  | 162  | 158  | 156  | 157  | 157  | 157  |
| 82.5 | 148                      | 127  | 108  | 107  | 119  | 116  | 110  | 109  | 109  | 109  | 108  |
| 85   | 95                       | 77   | 65   | 67   | 71   | 69   | 68   | 67   | 66   | 64   | 64   |
| 87.5 | 44                       | 32   | 29   | 32   | 32   | 32   | 31   | 28   | 26   | 25   | 25   |
| 90   | 0                        | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown.

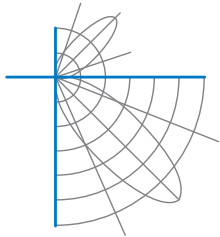


## Report of Test

LLIA001630-002

Luminous Intensity (Candela) Table

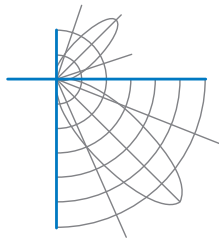
|  | Lateral (C-Plane) Angles |    |     |     |     |     |     |     |     |     |     |   |
|--|--------------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
|  | 90                       | 95 | 105 | 115 | 125 | 135 | 145 | 155 | 165 | 175 | 180 |   |
| Vertical (Gamma) Angles - Data was acquired in 0.5° increments, 2.5° increments shown. | 90                       | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 92.5                     | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 95                       | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 97.5                     | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 100                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 102.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 105                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 107.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 110                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 112.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 115                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 117.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 120                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 122.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 125                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 127.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 130                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 132.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 135                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 137.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 140                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 142.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 145                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 147.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 150                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 152.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 155                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 157.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 160                      | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
|  | 162.5                    | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0 |
| 165  | 0                        | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
| 167.5  | 0                        | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
| 170  | 0                        | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
| 172.5  | 0                        | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
| 175  | 0                        | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
| 177.5  | 0                        | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |
| 180  | 0                        | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |   |



Report of Test  
LLIA001630-002

**Additional Pictures of Test Subject**





## Report of Test

### LLIA001630-002

Test Distance                    9.5 m  
Ambient Temperature        24.8 °C

#### Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-19. Format of reports and angular increments based on IES LM-31-20 and LM-10-20.

The luminous intensity values, and other derived quantities, contained in this report are based on absolute data.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the IES C-Type spherical coordinate system as defined in IES LM-75-19.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with ‡ are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.

The device under test emits no detectable uplight, as defined by ANSI/IES LM-31-20. For the purpose of this report, certain non-zero uplight readings, attributable to instrument artifacts, have been assigned a zero value.